

Peril: *Our forefathers faced certain perils which we have outgrown. We now face other perils, the very existence of which it was impossible for them to foresee.*—Theodore Roosevelt, 26th U.S. president

Far East District Installation Support Success Story

Master Planning for Camps Humphreys and Carroll

By Gloria Stanley, FED PAO

FED is hard at work gaining valuable experience in master planning, skills increasingly in demand by customers.

In September 1996, the 19th Theater Army Area Command (TAACOM) requested FED support in executing a comprehensive Master Plan for Camp Humphreys and Camp Carroll in South Korea. They stated up front they wanted off-peninsula support. Discussions with the 19th TAACOM revealed the two installations were the first of a number of master planning actions that would be initiated in Korea over the next five years. The customer (19th TAACOM) wanted full comprehensive plans fully utilizing the latest Computer Aided Design Drafting (CADD) and Geographic Information System (GIS) technologies, but was not confident the scope of work they had written accurately defined their needs and was affordable. FED contacted the US Army Center for Public Works and learned about the US Army Corps of Engineers Master Planning Team (USACE MP Team) which had accomplished over \$20 million in master planning for US Forces Command (FORSCOM) installations in the last five years.

FED asked the team to provide a proposal for how the District should approach the Korean initiative and then make a presentation to the 19th TAACOM. Also included were presentations by the USACE MP Team and each invited architect-engineering firm, and a description of the strategy proposed by the Corps' Pacific Ocean Division. From the alternatives presented by FED, the 19th TAACOM selected the USACE MP Team.

On Feb. 10, 1997, a Memorandum of Agreement between the Corps and the 19th TAACOM for the execution of the master planning effort was signed. The USACE MP Team incorporated FED team members as they executed the master planning efforts for Camp Humphreys and Camp Carroll. Being a part of this team has provided FED with hands-on experience and knowledge in master planning while also providing an excellent product for the customer.

The plans provide comprehensive updates of the installation master plans for the next five years, incorporating Apache helicopter and Patriot missile system fielding and aviation restructuring

initiatives at Camp Humphreys. Plans at Camp Carroll include activation of the 23rd Chemical Battalion. The plans also support mission changes and expansion; address quality of life issues; and are environmentally sensitive, energy efficient and cost-effective. They provide the optimum functional layout and consider additional requirements for possible base expansion.

The updates include the Spacial Data System which converts existing Basic Information Maps to the more accurate electronic format GIS maps for spacial analysis, modeling, and CADD. The team also included vendor- and Corps-sponsored training for installations, FED and the 19th TAACOM.

A requirements analysis was done to determine projects necessary to correct facility shortfalls through use of an automated Tabulation of Existing and Required Facilities program to automate facility impact assessments.

The team updated the Utility Model data base and linked it to maps within the GIS to correct deficiencies based on current and future demands of water, wastewater, electricity, and infrastructure.

New Real Property master plan documents include a long-range component/general land use plan based on charettes and working sessions, siting analysis providing optimum facility location and capital investment strategy.

The update includes special products that enhance marketing of the master plan including installation design guides and landscape plans, executive summaries, video tours, and physical models.

The team members did a special study for Camp Humphreys to correct airfield deficiencies and propose consolidation of flight line activities and layout of the airfield. They also did a storm drainage study to develop solutions to flooding problems. A fire station study was also done to evaluate the feasibility of a joint-use fire/crash and rescue facility.

FED is using the advantage of the "virtual USACE" capabilities that need to be applied to today's challenges: a multifaceted team providing a multiple of solutions to a single undertaking. The project is on schedule and is being executed within the original budget of \$1.9 million.